

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 27, 2018

Tim Ciarlo Product Registration Manager FMC Corporation 2929 Walnut St. Philadelphia, PA 19104

Subject: Label Amendment – Addition of *Lygus* spp. and change the minimum spray

volume

Product Name: F9114 EC INSECTICIDE EPA Registration Number: 279-3426 Application Date: July 11, 2018 Decision Number: 542848

Dear Mr. Ciarlo:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Helen Hull-Sanders by phone at 703-347-0243, or via email at hull-sanders.helen@epa.gov.

Sincerely,

Elizabeth Fertich Product Manager 04

Invertebrate & Vertebrate Branch 1 Registration Division (7505P) Office of Pesticide Programs

Enclosure

RESTRICTED USE PESTICIDE

Due to toxicity to fish and aquatic organisms

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

ZETA-CYPERMETHRIN

GROUP

3**A**

INSECTICIDE

F9114 EC Insecticide

[ABN: Mustang Maxx Insecticide]

EPA Reg. No. 279-3426

EPA Est.

Active Ingredient:	By Wt.
Zeta-cypermethrin* S-Cyano (3-phenoxy-phenyl)methyl (+) cis/trans 3-(2,2-dichloro-	
ethenyl)-2,2 dimethylcyclopropane carboxylate	9.15%
Other Ingredients**	
-	100.0%

Contains 0.8 pounds active ingredient per gallon.

- * Cis/trans ratio: Max. 75% (±) cis and min. 25% (±) trans
- ** Contains Petroleum Distillates

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID			
If Swallowed:	- Call a poison control center or doctor immediately for treatment advice.		
	- Do not give liquid to the person.		
	- Do not induce vomiting unless told to do so by a poison control center or doctor.		
	- Do not give anything by mouth to an unconscious person.		
If in Eyes:	- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.		
•	- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing		
	eyes.		
	- Call a poison control center or doctor for treatment advice.		
If on Skin or Clothing:	- Take off contaminated clothing.		
J	- Rinse skin immediately with plenty of water for 15 to 20 minutes.		
	- Call a poison control center or doctor for treatment advice.		
If Inhaled:	- Move person to fresh air.		
	- If person is not breathing, call 911 or an ambulance, then give artificial respiration,		
	preferably mouth-to-mouth if possible.		
- Call a poison control center or doctor for further treatment advice			
HOTLINE NUMBER			
Have the product contain	per or label with you when calling a poison control center or doctor, or going for		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

NOTE TO PHYSICIAN

Contains petroleum distillate. Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage.

Net Contents:

Sold By FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

ACCEPTED

09/27/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2000 2000

279-3426

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Contains Petroleum Distillate. May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear protective eyewear (goggles, face shield, or safety glasses). Wear long- sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Viton, Barrier Laminate, Viton, Selection Category F, G).

Personal Protective Equipment:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS. Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate, and shoes plus socks. Wear protective eyewear such as goggles, face shield, or safety glasses.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate, shoes plus socks, and protective eyewear such as goggles, face shield, or safety glasses.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are foraging the treatment area.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area

during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Insect Resistance Management

For resistance management, F9114 EC Insecticide contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to F9114 EC Insecticide and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay insecticide resistance, take the following steps:

- Rotate the use of F9114 EC Insecticide or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pests.
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they
 may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticides that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves, such as Barrier Laminate or Viton, and shoes plus socks.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in a cool, dry, well-ventilated place under lock and key. Do not store below - 6.6°C (20°F). Do not use near heat, open flame or hot surfaces. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves and dry formulations above. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling

Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

For containers equal to 5 gallons or less: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or by other procedures approved by state and local authorities.

For containers greater than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or by other

Returnable/ Refillable Container.

procedures approved by state and local authorities.

Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or by other procedures approved by state and local authorities.

Product Information

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

F9114 EC Insecticide should be applied continuously for the duration of the water application. F9114 EC Insecticide should be diluted in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable diluent is used.

BUFFER ZONES

Vegetative Buffer Zones

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing zeta-cypermethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp. https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_023819.pdf.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast) – Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application – Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface. Smoke that layers and moves laterally indicates an inversion.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

APPLICATION INSTRUCTIONS

Use low rate under light to moderate infestation. Higher listed rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting. Do not exceed maximum allowable rate.

Preventive Use

For cutworm, armyworm, or stalk borer control, F9114 EC Insecticide may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control. Do not exceed maximum allowable rate.

Rotational Crops

With the exception of the crops listed below, do not plant rotational crops within 30 days of last application.

Tank-Mixture

F9114 EC Insecticide may be applied in tank mixtures with other products approved for use on Alfalfa and Nongrass Animal Feeds; Artichoke, globe; Avocado; Barley; Berries; Black Sapote; Brassica Vegetables; Buckwheat; Bulb Vegetables; Canistel; Canola (Rapeseed); Corn; Cotton; Cucurbit Vegetables; Fruiting Vegetables; Grapes; Grass Forage, Fodder and Hay and Grass Grown for Seed; Leafy Vegetables; Legume Vegetables; Mamey Sapote; Mango; Oats; Papaya; Peanut; Pistachios; Pome Fruits; Rice; Root and Tuber Vegetables; Rye; Safflower; Sapodilla; Sorghum; Soybeans; Star Apple; Stone Fruits; Sugar Beets; Sugarcane; Sunflower; Tree Nuts; and Wheat. Follow the most restrictive directions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

Maximum Usage When Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum seasonal total for either active ingredient when used alone, and do not apply more than the combined maximum seasonal total for both active ingredients as outlined in the table below.

Cran	Maximum Seasonal Total (lbs ai/acre)		Maximum Seasonal Total (Ibs ai/acre) When Applying Cypermethrin and Zeta-Cypermethrin Products to the Same Crop	Maximum Seasonal Total (Ibs ai/acre) When Applying Zeta- cypermethrin Products to the Same Crop	
Crop	Zeta-cype Mustang Insecticide	F9114 EC Insecticide	Cypermethrin	Zeta-cypermethrin plus Cypermethrin	Zeta-cypermethrin
Cotton	0.3	0.15	0.6	0.6	0.3
Field Corn	0.2	0.10	NA	NA	0.2
Sweet Corn	0.3	0.15	NA	NA	0.3
Eggplant	0.3	0.15	NA	NA	0.3
Pepper (Bell & Non-Bell)	0.3	0.15	NA	NA	0.3
Tomato	0.3	0.15	NA	NA	0.3
Head Lettuce	0.3	0.15	0.6	0.6	0.3
Head and Stem Brassica	0.3	0.15	0.6	0.6	0.3
Succulent Peas and Beans	0.3	0.15	NA	NA	0.3
Pecans	0.3	0.15	0.6	0.6	0.3
NA = Not Ap	plicable				

Maximum Seasonal Usage and PHI (Pre-Harvest Interval) for F9114 EC Labeled Crops

Crop		T		
Disa O.05/cutting with a maximum of 3 cutting with a maximum of 24.0 per season, 0.15/season per season, 0.15/season on the per season, 0.75/season on the per season, 0.75/season on the per season, 0.75/season on the per season of t	_			
Alfalfa	Crop			PHI (days)
Alfafa				
Nongrass Animal Feeds				3 (cutting or grazing)
Nongrass Animal Feeds	Alfalfa		maximum of 24.0 per	
(Forage, Fodder, Straw and Hay) Group except Alfalfa		per season, 0.15/season	season	7 (Hai vesting seed)
Avocado, Black Sapote, Canistel, Mary Sapote, Mary Sapote, Canistel, Marney Sapote, Margo, Papaya, Sapodilla, Star Apple 0.15		0.025/cutting with a	4 0/cutting with a	
Alfalfa				
Avocado, Black Sapote, Canistel, Mamey Sapote, Canistel, C				7 (harvesting seed)
Canistel, Mamey Sapote, Mango, Papaya, Sapotella, Star Apple 0.15 24.0 1 Artichoke, globe 0.1 16.0 5 Artichoke, globe 0.15 20.0 14 Barries 0.15 24.0 1 Brasica Vegetables 0.15 24.0 1 Bulb Vegetables 0.125 20.0 7 Citrus 0.1 16.0 1 Corn, sweet 0.15 24.0 3 Corn, field, seed, pop 0.10 16.0 7 (grain, stover, and forage) Cotton 0.15 24.0 1 Cucurbit Vegetables 0.15 24.0 1 Grapes 0.15 24.0 1 Grapes 0.15 24.0 1 Grapes 0.15 24.0 1 Hay 0.10/season 16.0 7 (Straw and Seed Screenings) Grown for Seed Straw & Seed 20.0 1 Grass Forage, Fodder, and Hay Group and Grass Grown for Seed 5 (Straw & Seed Screenings) 20.0		per ceasers, errereasers		
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Mango, Papaya, Sapodilla, Star Apple Artichoke, globe O.1 16.0 5		0.15	24 0	1
Artichoke, globe				·
Barley				
Berries				
Brassica Vegetables				
Bulb Vegetables				<u> </u>
Citrus				
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Corn, field, seed, pop				<u> </u>
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Cucurbit Vegetables 0.15 24.0 1 Fruiting Vegetables 0.15 24.0 1 Grapes 0.15 24.0 1 Grapes 0.15 24.0 1 Grass Forage, Fodder, and Hay Group and Grass Grown for Seed 0.025/cutting 4.0/cutting 0 (Forage and Hay) 7 (Straw and Seed Screenings 0.125/season Leafy Vegetables 0.15 24.0 1 1 Legume Vegetables 0.15 24.0 1 1 (succulent shelled or edible-podded) Legume Vegetables 0.15 24.0 1 1 (succulent shelled or edible-podded) Oats 0.125 20.0 14 1 (succulent shelled or edible-podded) Oats 0.125 20.0 14 1 (succulent shelled or edible-podded) Oats 0.125 20.0 14 1 (succulent shelled or edible-podded) Oats 0.125 20.0 7 1 (dried shelled) 21 (dried shelled) 21 (dried shelled) 21 (dried shelled) 1 (dried shelled) 21 (dried shelled) 1 (dried shelled) 1 (dried shelled) 1	Corn, field, seed, pop	0.10	16.0	7 (grain, stover, and forage)
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The REI (Restricted Entry Interval) is 12 hours for all labeled crops. Refer to the crop specific use directions for detailed information on application timing and any use restrictions.

Nongrass Animal Feeds (Forage, Fodder, Straw and Hay) Group – Except Alfalfa and Alfalfa grown for seed

including: Velvet Bean; Clover (*Trifolium, Melilotus*); Kudzu; Lespedeza; Lupin; Sainfoin; Trefoil; Vetch; Crown Vetch; and Milk Vetch

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Alfalfa Aphid¹ Green Peach Aphid¹ Pea Aphid¹ Spotted Alfalfa Aphid¹ Threecornered Alfalfa Hopper	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher listed dosage for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect
Armyworms Grasshoppers Plant Bugs (including <i>Lygus</i> spp. & Stink Bugs)	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	control under high temperatures, when foliage is dense and/or when insect pressure is high.

- Do not make applications less than 7 days apart.
- A maximum of 4 fluid ounces of product (0.025 pounds active ingredient) per acre may be applied per cutting with a maximum of 12 fluid ounces of product (0.075 pounds of active ingredient) per acre per season.
- Applications may be made up to 3 days of cutting or grazing or up to 7 days of harvesting seed.

¹Aphid control may be variable depending on species present and host-plant relationships.

Alfalfa; Alfalfa grown for seed: includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these

Insects	Rate of	Method of
Controlled	Application	Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Alfalfa Aphid ¹ Green Peach Aphid ¹ Pea Aphid ¹ Spotted Alfalfa Aphid ¹ Threecornered Alfalfa Hopper	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher listed dosage for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect
Armyworms Grasshoppers Plant Bugs (including <i>Lygus</i> spp. & Stink Bugs)	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	control under high temperatures, when foliage is dense and/or when insect pressure is high.

- Do not make applications less than 7 days apart.
- A maximum of 8 fluid ounces of product (0.05 pounds active ingredient) per acre may be applied per cutting with a maximum of 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Applications may be made up to 3 days of cutting or grazing or up to 7 days of harvesting seed

Globe Artichoke

Insects Controlled	Rate of Application	Method of Application
Aphids ¹ Artichoke Plume Moth Lygus Bug ² Proba Bug	4.0 fl oz/A (0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
		Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).
		Follow appropriate spray drift precautions on this label.

¹Aphid control may be variable depending on species present and host-plant relationships.

- Do not apply more than 16.0 fluid ounces of product or 0.10 pounds of active ingredient per acre per season.
- Do not make applications less than 14 days apart.
- Do not apply within 5 days of harvest.

Tropical Fruits including:(Avocado, Black Sapote, Canistel, Mamey Sapote, Mango, Papaya, Sapodilla, Star Apple)

Insects Controlled	Rate of Application	Method of Application
Avocado Lace Bug Avocado Leafhopper Avocado Leafroller Avocado Loopers Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Caterpillars Mirids Omnivorous Loopers Orange Tortrix Scale Crawlers Spanworm Thrips Twig Borers	4.0 fl oz/A (0.025 lbs ai/A)	Apply by ground equipment using sufficient water to obtain full coverage of foliage in a minimum of 20 gallons for a concentrate spray or a minimum of 100 gallons for a dilute spray. Apply by air in a minimum of 10 gallons per acre. Apply when insects first appear and repeat at 7 to 10 day intervals as needed to provide control.

[•] Do not apply more than 24.0 fluid ounces of product or 0.15 pounds of active ingredient per acre per season.

Barley (including malt barley), Buckwheat, Oats, and Rye

Insects Controlled	Rate of Application	Method of Application
Cutworm spp., including Army Cutworm Painted Lady (Thistle) Caterpillar	1.28 to 4.0 fl oz/A (0.008 to 0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Do not exceed maximum allowable rate.
Armyworm, Southern Armyworm, True Armyworm, Yellow- Striped Cereal Leaf Beetle Flea Beetle spp. Pale Western Cutworm Plant Bug spp. Spittlebug Webworm spp.	1.76 to 4.0 fl oz/A (0.011 to 0.025 lbs ai/A)	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).

¹ Aids in control.

² See resistance statement under Directions For Use section

[•] Do not apply within 1 day of harvest.

Aphid spp. ^{1, 2} Armyworm, Beet ² Armyworm, Fall Chinch Bug Grass Sawfly Grasshopper spp. Greenbug ^{1, 2} Stink Bug spp. Thrips spp. Wheat Stem Sawfly (adult) ¹ Whitefly spp. ^{1, 2}	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	For chinch bug control, begin applications when bugs migrate from small grains or grass weeds. Apply sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths.
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- Do not apply more than 20.0 ounces of product or 0.125 pound of active ingredient per acre per season.
- Do not make applications less than 14 days apart.
- Do not apply within 14 days of harvest for grain, straw, and hay.
- ¹ Aids in control.
- ² See resistance statement under Directions For Use section

Berries Crop Group including: blackberry; loganberry, red and black raspberry; blueberry, highbush and lowbush; currant; elderberry; gooseberry; huckleberry; and cultivars and/or hybrids of these

Insects	Rate of	Method of
Controlled	Application	Application
Leafrollers Orange Tortrix Root Weevils Vinegar Flies (Adult) Spotted Wing Drosophila	4.0 fl oz/A (0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate. Apply by ground and air equipment using sufficient water to obtain full coverage of foliage (minimum of 20 gallons by ground and 2 gallons by air).

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not make applications less than seven days apart.
- Do not apply within 1 day of harvest.

Head and Stem Brassica Vegetables including: Broccoli; Chinese Broccoli (gai Ion, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo broccolo; Kohlrabi; Cabbage; Chinese Cabbage (napa); Chinese Mustard Cabbage (gai choy)

Leafy Brassica Greens including: Broccoli Raab (rapini); Chinese cabbage (bok choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens; and Turnip Greens

Incoato	Data of	Mathadaf
Insects	Rate of	Method of
Controlled	Application	Application
Corn Earworm	2.24 to 4.0	Apply in water as necessary
Cucumber Beetles	fl oz/A	for insect control using a
Cutworm	(0.014 to 0.025 lbs ai/A)	minimum of 15 gallons of
Diamondback Moth ¹		finished spray per acre with
Flea Beetles		ground equipment and 5
Imported Cabbageworm		gallons per acre by air.
Leafhoppers		
Saltmarsh Caterpillar		Lower rates of F9114 EC
Southern Cabbageworm		should be used under light to
Tobacco Budworm ¹		moderate insect pressure.
Alfalfa Looper	3.2 to 4.0 fl oz/A	Use higher listed rates to
Armyworms	(0.02 to 0.025 lbs ai/A)	control heavy to extremely
Cabbage Looper	(0.00 0.000 0.000 0.000 0.000 0.000	heavy insect populations.
Cabbage Webworm		
Crickets		In areas where arid climatic
Grasshoppers		conditions persist, such as
Ground Beetles		California and Arizona, higher
Leafminers (adults)		listed rates may be required.
Lygus Bugs		notou ratoo may bo roquirou.
Onion Thrips		
Stinkbugs		
Wireworm (adults)		
Aphids ²		
Whiteflies ³		

- Do not make applications less than 7 days apart.
- A maximum of 24 fluid ounces of product (0.15 pounds of active ingredient) may be applied per acre per season.
- Do not apply within 1 day of harvest.

Bulb Vegetables (Allium spp.) including: Garlic; Garlic, Great-Headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions

Insects	Rate of	Method of
Controlled	Application	Application
Armyworms Cutworms Leafminers (adults) Onion Maggot Adults Stink Bugs Aphids ¹	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply in a minimum of 20 gallons per acre with ground equipment or in a minimum of 3 gallons per acre by aircraft. Begin applications when

¹ See resistance statement under "Directions for Use" section.

²Aphid control may be variable depending on species present and host-plant relationships.

³ Aids in control

Onion Thrips		pests appear and repeat as necessary to maintain control.
	2.88 to 4.0 fl oz/A (0.018 to 0.025 lbs ai/A)	To control Onion Thrips: Use higher listed rates as population increases and avoid rescue situations. Use of a crop oil concentrate at 16 fluid ounces per acre is recommended. Do not exceed maximum allowable rate.

- Do not make applications less than 7 days apart.
- Do not apply more than 20 fluid ounces of product (0.125 pound of active ingredient) per acre per season.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not apply within 7 days of harvest.

¹Aphid control may be variable depending on species present and host-plant relationships.

Citrus Fruits Crop Group including: Calamondin (*Citrus mitis*; *Citrofortunella mitis*); Citrus citron (*Citrus medica*); Citrus hybrids (*Citrus* spp.) (includes chironja, tangelo, tangor); Grapefruit (*Citrus paradisi*); Kumquat (*Fortunella* spp.); Lemon (*Citrus jambhiri, Citrus limon*); Lime (*Citrus aurantiifolia*); Mandarin (tangerine) (*Citrus reticulata*); Orange, sour (*Citrus aurantium*); Orange, sweet (*Citrus sinensis*); Pummelo (*Citrus grandis, Citrus maxima*); and Satsuma mandarin (*Citrus unshiu*)

Insects	Rate of	Method of
Controlled	Application	Application
Asian Cockroach Beet Armyworm Blue-Green Citrus Root Weevils Cutworms Diaprepes Root Weevil Fire Ants Fuller Rose Beetle Glassy-Winged Sharpshooter Grasshopper Katydid Leafhoppers Leafrollers Leafminers* Little Leaf Notcher Loopers Orange Tortrix Orangedog Caterpillars Plantbugs Psyllids Thrips Whiteflies	4.0 fl oz/A (0.025 lbs ai/A)	Apply by ground equipment using sufficient water to obtain full coverage of foliage in a minimum of 20 gallons for concentrate spray or a minimum of 100 gallons for dilute spray. Apply by air in a minimum of 10 gallons per acre. Begin applications when pest activity is noted.

- Do not apply more than 16 fluid ounces of product (0.10 pounds active ingredient) per acre per season.
- Do not make applications less than fourteen days apart.

Do not apply within 1 day of harvest.

Corn. Sweet

Insects	Rate of	Method of
Controlled	Application	Application
Chinch Bug Corn Rootworm (Adult) Corn Silkfly Cutworms Flea Beetle Leafhoppers Japanese Beetle (Adult) Sap Beetle (adults) Tarnished Plant Bug	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage. Apply in water using a minimum of 20 gallons of finished spray per acre with ground equipment and a minimum of 2 gallons
Armyworms Corn Borers Corn Earworm Grasshoppers Aphids ¹	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	per acre by air.

- Apply at minimum 3 to 5 day intervals or as needed for control.
- A maximum of 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season may be applied.
- Do not apply within 3 days of harvest of ears or forage or livestock grazing.
- ¹Aphid control may be variable depending on species present and host-plant relationships.

Corn (Field), Field Corn Grown for Seed, Popcorn

At Plant Use

Insects	Rate of	Method of
Controlled	Application	Application
Cutworms	0.16 fl oz per 1,000 linear feet of row (0.001 lbs ai per 1,000 linear feet of row)	Apply as an in-furrow, band or T-band treatment using a minimum 4" band. Use table below to determine the F9114 EC needs for each acre.
Row Spacings (inches)	40 30	20
F9114 EC (pounds ai per acre)	0.012 0.0	18 0.024
F9114 EC (formulated ounces)	per acre) 1.92 2.8	8 3.84

- Do not apply more than 16 fluid ounces of product (0.10 pound of active ingredient) per acre per season including at-plant plus foliar applications of F9114 EC.
- Do not apply within 7 days of harvest for grain, stover, and forage.

Corn (Field), Field Corn Grown for Seed, Popcorn

Insects	Rate of	Method of
Controlled	Application	Application
Cutworms	1.28 to 2.8	Make applications when
	fl oz/A	insect populations reach
	(0.008 to 0.0175 lbs ai/A)	economic thresholds. Refer
Corn Earworm ¹	1.76 to 4.0	to local Cooperative
Green Cloverworm	fl oz/A	Extension Pest Management
Meadow Spittlebug	(0.011 to 0.025 lbs ai/A)	Guidelines and/or scouting
Western Bean Cutworm1	(0.011 to 0.023 lbs al/A)	

Dean Lear Deene		results. Do not exceed
Cereal Leaf Beetle		maximum allowable rate.
Corn Borer, European		
Corn Borer, Southwestern		Apply by air or by ground
Corn Rootworm Beetle		equipment using sufficient
Flea Beetle		water to obtain full coverage
Grasshoppers		of foliage (minimum of 2
Hop Vine Borer	2.72 to 4.0	gallons per acre by air and 10
Hornworms	fl oz/A	gallons per acre by ground).
Japanese Beetle (adult)	(0.017 to 0.025 lbs ai/A)	For chinch bug control, scout
Sap Beetle (adult)		corn fields and make
Southern Corn Leaf Beetle		applications when bugs
Stalk Borer		migrate from small grains or
Stink Bug Spp.		wild grasses to small corn.
Tobacco Budworm ²		Direct spray to the base of
Webworms		plant. Repeat applications at
Aphids ³		3 to 5 day intervals if needed.
Armyworms (including Fall	3.2 to 4.0 fl oz/A	F9114 EC may only suppress
Armyworms)	(0.02 to 0.025 lbs ai/A)	heavy infestations and/or
Chinch Bug	(0.02 to 0.023 lbs al/A)	subsequent migrations.

results. Do not exceed

- Do not apply more than 16 fluid ounces of product (0.10 pound of active ingredient) per acre per season including At-Planting plus foliar applications of F9114 EC Insecticide.
- Do not apply within 7 days of harvest for grain, stover, and forage.

Cotton

Rean Leaf Reetle

Insects Controlled	Rate of Application	Method of Application
Preemergent Use: Cutworms	1.28 to 1.92 fl oz/A (0.008 to 0.012 lbs ai/A)	Use F9114 EC in the time period from 14 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or air, banded (including T-band) or in-furrow spray using sufficient spray volume to achieve adequate coverage. Reduced volumes of water may be used with specialized equipment. Use the higher listed rates of F9114 EC when incorporating into the soil.

¹ For control before the larva bores into the plant stalk or ear.

² See resistance statement under "Directions for Use" section.

³ Control may be variable depending on species present and host-plant relationships.

Cutworms
Tobacco Thrips
Soybean (banded) Thrips

F9114 EC may be applied in water or refined vegetable oil. When water is used, apply a minimum of one gallon of finished spray per acre by air or five gallons of finished spray with ground equipment. When applying in water by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray. When using oil, use a minimum of one quart per acre in the finished spray. Control of lepidopteran eggs may be achieved with proper timing of applications.

For boll weevil control, apply F9114 EC at a 3 to 4 day interval until pest numbers are reduced to acceptable levels.

1.28 to 1.92 fl oz/A (0.008 to 0.012 lbs ai/A) For control of grasshoppers, applications should be made based on careful field scouting. Do not exceed maximum allowable rate. Treatment decisions should be made based on evidence of feeding damage and presence of grasshoppers in cotton. Loss of cotyledon leaves in seedling cotton should be considered more important than leaf loss in older cotton. Applications should be made on a broadcast basis since grasshoppers are highly mobile.

Adjust rates based on populations of grasshopper found in fields. Applications should be made on a three to five day schedule until grasshopper populations are under control or until foliage loss subsides.

Increase application rates as grasshopper size and population density increases.

Armyworm, Fall Armyworm, Yellow Striped Boll Weevil Cabbage Looper Corn Borer, European Cotton Bollworm Cotton Fleahopper Cotton Leaf Perforator Pink Bollworm Saltmarsh Caterpillar Stink Bugs Tarnished Plant Bug Other Plant Bugs Tobacco Budworm ¹	2.64 to 3.6 fl oz/A (0.0165 to 0.0225 lbs ai/A)	
Armyworm, Beet ² Cotton Aphid ³ Lygus Bugs Whiteflies ⁴ Grasshoppers	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A) 3.0 to 4.0 fl oz/A	
	(0.01875 to 0.025 lbs ai/A)	

- A maximum of 24 fluid ounces of product (0.15 pounds of active ingredient) may be applied per acre per season.
- Do not graze or feed cotton for forage.
- Do not apply within 14 days of harvest.
- ¹ See resistance statement under "Directions for Use" section.
- ² For control of beet armyworms only in the high plains of Texas, Arizona, and California.
- ³ Aphid control may be variable depending on species present and host-plant relationships.

⁴ Aids in control.

Canola, Crambe, Rapeseed Borage, Cuphea, Echium, Flax, Gold of Pleasure, Hare's-Ear Mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard, Oil Radish, Poppy Seed, Sesame, and Sweet Rocket

Insects	Rate of	Method of
Controlled	Application	Application
Aphids Cutworms Diamondback Moth Loopers Lepidopterous Larvae Flea Beetle Fleahoppers Grasshopper Plant Bug	4.0 fl oz/A (0.025 lbs ai/A)	Application Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate.
Stink Bugs Seedpod Weevil Thrips Whitefly Armyworms		Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not make applications less than seven days apart.
- Do not apply within 7 days of harvest.

Cucurbit Vegetables Group

including: Chayote (fruit); Chinese Waxgourd (Chinese Preserving Melon); Citron Melon; Cucumber; Gherkin; Gourd (edible) (including hyotan, cucuzza, hechima, Chinese orkra); *Mormordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin; Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Winter Squash (includes butternut squash, calabaza, hubbard squash, acorn squash, and spaghetti squash); Watermelon (includes hybrids and varieties)

Insects	Rate of	Method of
Controlled	Application	
		Application
Cutworm spp.	1.28 to 4.0	Apply as required by
	fl oz/A	scouting. Timing and
	(0.008 to 0.025 lbs ai/A)	frequency of applications
		should be based upon insect
Cabbage Looper		populations reaching locally
Cucumber Beetle spp. (adult)		determined economic
Leafhopper spp.		threshold levels. Do not
Melonworm	2.8 to 4.0	exceed maximum allowable
Pickleworm	fl oz/A	rate.
Rindworm	(0.0175 to 0.025 lbs ai/A)	
Squash Bug	(0.0)	Apply by ground or air
Squash Vine Borer		equipment using sufficient
Oquasii viile Borei		water to obtain full coverage
Aphid spp. 1, 2		of foliage (minimum of 10
		gallons by ground and 2
Armyworm, Beet ^{1, 2}	3.2 to 4.0	
Corn Earworm	fl oz/A	gallons by air).
Leafminer ¹	(0.02 to 0.025 lbs ai/A)	
Plant Bug spp.	(0.02 to 0.020 100 (117 t)	Do not make applications less
Stinkbug spp.		than 7 days apart.

[•] Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.

[•] Do not apply within 1 day of harvest.

¹ Aids in control.

² See resistance statement under "Directions For Use" section.

Fruiting Vegetables (except Cucurbits) including: Eggplant; groundcherry (*Physalis* spp.); okra; pepino (Melon pear); pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato

Insects	Rate of	Method of
Controlled	Application	Application
Armyworm, Southern Armyworm, True Armyworm, Yellow-striped Celery Leaf Tier Colorado Potato Beetle Corn Borer, European Corn Borer, Southwestern Corn Earworm Cucumber Beetle Cutworm spp. Flea Beetle Garden Webworm Green Stink Bug Hornworms Leafminers (adults) Leafhopper spp. Meadow Spittlebug Pepper Maggot (adults) Pepper Weevil Plant Bug spp. Tobacco Budworm Tomato Pinworm	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Do not exceed maximum allowable rate. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).
Aphid spp. ^{2, 3} Armyworm, Beet ² Armyworm, Fall Cabbage Looper Grasshoppers Lygus Bugs Brown Stink Bug Tomato Psyllid Thrips spp. ^{1, 2} Whitefly spp. ^{1,2}	3.2 to 4.0 fl oz/A (0.020 to 0.025 lbs ai/A)	

- Do not make applications less than 7 days apart.
- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not apply within 1 day of harvest.

Grape

Insects	Rate of	Method of
Controlled	Application	Application
Asian Lady Bird Beetle	2.0 to 4.0	Apply as required by
Lady Bird Beetle	fl oz/A	scouting. Timing and
Cutworm species	(0.0125 to 0.025 lbs ai/A)	frequency of applications
·	, ,	should be based upon insect
		populations reaching locally

¹ Aids in control

² See resistance statement under "Directions for Use" section.

³ Aphid control may be variable depending on species present and host-plant relationships.

Eastern Grape Leafhopper Variegated Leafhopper Western Grape Leafhopper Grape Berry Moth	4.0 fl oz/A (0.025 lbs ai/A)	determined economic threshold levels. Do not exceed maximum allowable rate.
Japanese Beetle (adult) Vinegar Flies (Adult) Spotted Wing Drosophila		Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not make applications less than seven days apart.
- Do not apply within 1 day of harvest.

Grass Forage, Fodder, and Hay Group and Grass Grown for Seed and Pasture and Rangeland

including: bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagrass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysia grass. Also included are sudangrass and sorghum forages and their hybrids

Insects	Rate of	Method of
Controlled	Application	Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Alfalfa Aphid¹ Green Peach Aphid¹ Pea Aphid¹ Spotted Alfalfa Aphid¹ Threecornered Alfalfa Hopper	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher listed dosage for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of
Armyworms Bermudagrass Stem Maggot Fly (adult only) ² Cereal Leaf Beetle Chinch Bug Grass Mealybug Grasshoppers Plant Bugs (including Lygus spp. & Stink Bugs)	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high.

- Do not make applications less than 7 days apart for forage and hay; not less than 17 days for straw and seed screenings.
- Do not spray livestock. Allow application to dry before letting livestock graze on treated area.
- A maximum of 4 fluid ounces of product (0.025 pounds of active ingredient) per acre may be applied per cutting.
- For hay, a maximum of 16 fluid ounces of product (0.10 pounds of active ingredient) per acre per season may be applied.
- For forage, straw, and seed screenings, a maximum of 20 fluid ounces of product (0.125 pounds active ingredient) per acre per season may be applied.
- Applications may be made up to harvest for forage and hay; within 7 days of harvest for straw and seed screenings.
- ¹ Aphid control may be variable depending on species present and host-plant relationships.
- ² Apply after cutting and as grass starts to resprout. Only controls the adult flies, does not control the larvae feeding inside grass stem.

Leafy Vegetables (except Brassica) including: Amaranth (leafy amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Cilantro (not for use on cilantro grown for seed or coriander); Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finochio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Spinach (including New Zealand and vine, Malabar spinach, Indian spinach); Swiss chard

Insects	Rate of	Method of
Controlled	Application	Application
Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar Tobacco Budworm ² Aphid spp. ^{2,3} Whitefly spp. ^{1,2}	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply in water as necessary for insect control using a minimum of 10 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of F9114 EC should be used under light to moderate insect pressure. Use higher listed rates to
Armyworms Ground Beetles Crickets Loopers Lygus Bugs Onion Thrips Stink Bugs Wireworm (adults)	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	control heavy to extremely heavy insect populations. In areas where arid climatic conditions persist, such as California and Arizona, higher listed rates may be required.

- Do not make applications less than 7 days apart.
- A maximum of 24 fluid ounces of product (0.15 pound active ingredient) may be applied per acre per season.
- Do not make applications within 1 day of harvest.
- ¹ Aids in control
- ² See resistance statement under "Directions For Use" section
- ³ Aphid control may be variable depending on species present and host-plant relationships.

Legume Vegetables

Legume Vegetables - Dried (except Soybeans) - At-plant Application

Dried Shelled Pea and Bean (except Soybeans), Dried cultivars of bean (Lupinus spp.)

includes Grain Lupin, Sweet Lupin, White Lupin, and White Sweet Lupin; *Phaseolus* spp. Includes Field Bean, Kidney Bean, Lima Bean (dry), Navy Bean, Pinto Bean, Tepary Bean; Bean (*Vigna* spp.) includes Adzuki Bean, Blackeyed Pea, Catjang, Cowpea, Crowder Pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean; Broad Bean (dry); Chickpea; Guar; Lablab Bean; Lentil; Pea (*Pisum* spp.) includes Field Pea; Pigeon Pea.

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp. White grub Wireworm spp.	4.0 fl oz/A (0.025 lbs ai/A)	For Cutworm spp: Apply at planting on the soil surface in a 5 – 7 inch band in a minimum of 2 – 7 gallons per acre or broadcast in a minimum of 10 gallons per acre. For White grubs and Wireworms: Apply in-furrow or in a 3 – 4 inch T-Band (band over the open furrow) at planting in a minimum of 2 – 7 gallons per acre.

- Maximum Amount per Application: Do not apply more than 4.0 fluid ounces of product (0.025 pounds of active ingredient) per acre.
- Maximum Amount per Season: Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season including at-plant plus foliar applications.

• Do not apply within 21 days of harvest for dried shelled peas or beans.

= = pp. j = j p		
Row spacing (inches)	FI oz/ 1000 linear feet	Lbs ai/ 1000 linear feet
30	0.23	0.0014
20	0.15	0.00096
15	0.115	0.0007

Legume Vegetables - Foliar Use

Succulent Edible-Podded Peas, Succulent Shelled Peas and Dried Shelled Peas (Pisum spp.)

including: Dwarf Pea; Edible-pod Pea; Snow Pea; Sugar Snap Pea; Pigeon pea; English Pea; Garden Pea; Green Pea; Lentil.

Succulent Edible-Podded Beans, Succulent Shelled Beans, and Dried Shelled Beans

including: Runner Bean; Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Jackbean; Soybean (immature seed); Swordbean; Lima Bean; Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Field Bean; Kidney Bean; Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab bean.

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp.		Apply as required by
Thistle Caterpillar (Painted	1.28 to 4.0	scouting, usually at intervals
Lady)	fl oz/A	of 5 or more days. Timing
Saltmarsh Caterpillar	(0.008 to 0.025 lbs ai/A)	and frequency of applications
Silverspotted Skipper	,	should be based upon insect

Alfalfa Caterpillar populations reaching locally Armyworm, Southern determined economic Armyworm, True thresholds. Do not exceed Armyworm, Yellow-Striped maximum allowable rate. Bean Leaf Beetle Blister Beetle spp. Apply by ground or air Colorado Potato Beetle equipment using sufficient Corn Borer, European water to obtain full coverage Corn Borer, Southwestern of foliage (minimum of 10 Corn Earworm gallons by ground and 2 Corn Rootworm Beetle (adult) gallons by air). Cowpea Curculio Cucumber Beetle Flea Beetle Green Cloverworm Ground Beetles Imported Cabbageworm 2.72 to 4.0 Japanese Beetle fl oz/A Leaf Skeletonizer spp. (0.017 to 0.025 lbs ai/A) Leafhopper spp. Leafminers (adults) Mexican Bean Beetle Pea Weevil Pea Leaf Weevil Plant Bug spp. Potato Leafhopper Seedcorn Beetle Seedcorn Maggot (adult) Spittlebug Three-Cornered Alfalfa Hopper Tobacco Budworm² Velvetbean Caterpillar Webworm spp. Woolly Bear Caterpillar Aphid spp. 2,3 Armyworm, Beet 2 Armyworm, Fall Grasshoppers 3.2 to 4.0 fl oz/A Lesser Cornstalk Borer 1 (0.020 to 0.025 lbs ai/A) Looper spp. ² Stink Bug spp. Thrips spp. 1,2

- Do not make applications less than 5 days apart.
- Maximum Amount per Season: Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season including at-plant plus foliar applications.
- Do not apply within 1 day of harvest for succulent shelled or edible-podded peas or beans; within 21 days for dried shelled peas or beans

Whitefly spp. 1,2

- ² See resistance statement under "Directions For Use" section
- ³ Aphid control may be variable depending on species present and host-plant relationships.

¹ Aids in control

Peanut

Insects	Rate of	Method of
Cutworm spp	Application	Application
Cutworm spp. Green Cloverworm Velvetbean Caterpillar Red-necked Peanut Worm	1.28 to 4.0 fl oz/A (0.008 to 0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). Do not make applications less
		than 14 days apart.
Bean Leaf Beetle Leafhopper spp. Southern Corn Rootworm (adult) Vegetable Weevil Whitefringed Beetle (adult)	1.76 to 4.0 fl oz/A (0.011 to 0.025 lbs ai/A)	
Aphid spp. ^{1, 2} Armyworm, Beet ^{1, 2} Armyworm, Fall ^{1, 2} Corn Earworm Grasshopper spp. Lesser Cornstalk Borer ^{1, 2} Soybean Looper ^{1, 2} Stink Bug spp. ^{1, 2} Tobacco Thrips ²	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not graze livestock in treated areas.
- Do not use treated vines or hay for animal feed.
- Do not apply within 7 days of harvest.

¹ Aids in control.

² See resistance statement under "Directions For Use" section.

Pome Fruit Group including: Apple; Crabapple; Loquat; Mayhaw; Pear; Oriental Pear; and Quince.

Insects	Rate of	Method of
Controlled	Application	Application
Apple Maggot Codling Moth European Apple Sawfly Green Fruitworm Japanese Beetle Lesser Appleworm Oblique Banded Leafroller Oriental Fruit Moth Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafhopper Redbanded Leafroller Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Stink Bugs Tarnished Plant Bug Tufted Apple Bud Moth Variegated Leafroller White Apple Leafhopper	1.28 to 4.0 fl oz/A (0.008-0.025 lbs ai/A)	Begin applications at delayed dormant through first cover as common to the production areas and the target pest species. Apply in a full season spray program. Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (for ground application use a minimum of 20 gallons for concentrate spray or a minimum of 100 gallons for dilute spray; for air application use a minimum of 10 gallons). Do not make applications less than 7 days apart. Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not apply as a ULV spray.
- Do not feed or allow livestock to graze on cover crops from treated orchards.
- Do not apply within 14 days of harvest.

Rice and Wild Rice

Insects	Rate of	Method of
Controlled	Application	Application
Armyworm, Fall Armyworm, True Armyworm, Yellow Striped Grasshoppers Green Bug Leafhopper Spp. Rice Water Weevil (adult) Oat Birdcherry Aphid ¹ Wild Rice Worm Mexican Rice Borer ² Rice Stalk Borer ² Sugarcane Borer ²	3.2 to 4.0 fl oz/A (0.020 to 0.025 lbs ai/A)	Apply as needed based on pest thresholds determined by scouting practices. Refer to Extension Scouting guidelines for scouting techniques, pest thresholds and treatment timing and treatment intervals. Determine the need for repeat applications, usually at intervals of 7 days, by scouting. Do not exceed
Chinch Bug	2.64 to 4.0	maximum allowable rate.
Rice Stink Bug	fl oz/A	
	(0.0165 to 0.025 lbs ai/A)	

F9114 EC can be safely applied in conjunction with approved rice herbicides.

Apply by air or ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 5 gallons of water per acre. For increased control, crop oil concentrate at 16 fluid ounces per acre may be used.

For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time-frame of 0-5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates adult weevils are not present. Adults may also be treated at later stages of rice development to reduce overwintering populations.

For control of rice water weevil in water seeded rice. make the first application after flooding when scouting indicates the presence of adults and/or feeding scars. Application should usually begin when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.

Green bug is known to have many biotypes. F9114 EC

may only provide suppression. If satisfactory control is not achieved with the first application of F9114 EC, a resistant biotype may be present. Use alternate
chemistry for control.

- Do not make applications less than 7 days apart.
- Do not release floodwater within 7 days of an application.
- A maximum of 16 fluid ounces of product (0.10 pound active ingredient) (1.0 pints) may be applied per acre per season.
- Do not use treated rice field for the aquaculture of edible fish and crustacea.
- Do not apply as an ultra-low volume (ULV) spray.
- Do not apply within 14 days of harvest.
- ¹ Aphid control may be variable depending on species present and host-plant relationships
- ² Control before larvae bore into the plant stalk

Root and Tuber Vegetables Group 1 (except Sugar Beet)

including: Arracacha; Arrowroot; Artichoke (Chinese and Jerusalem); Garden Beet; Edible Burdock; Edible Canna; Carrot; Cassava (Bitter and Sweet); Celeriac (Celery Root); Chayote (Root); Turnip-Rooted Chervil; Chicory; Chufa; Dasheen (Taro); Ginger; Ginseng; Horseradish; Leren; Turnip-Rooted Parsley; Parsnip; Potato; Oriental Radish (Daikon); Radish; Rutabaga; Salsify (Oyster Plant); Black Salsify; Spanish Salsify; Skirret; Sweet Potato; Tanier (Cocoyam); Turmeric; Turnip; Yam Bean; and Yam (True).

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp.	1.28 to 4.0	Apply as required by
	fl oz/A	scouting. Timing and
	(0.008 to 0.025 lbs ai/A)	frequency of applications
Cabbage Looper		should be based upon insect
Cucumber Beetle		populations reaching locally
European Corn Borer		determined economic
Fleabeetle spp.	1.76 to 4.0	thresholds levels. Do not
Leafhopper spp.	fl oz/A	exceed maximum allowable
Southern Corn Rootworm	(0.011 to 0.025 lbs ai/A)	rate.
(adult)		
Vegetable Weevil		Apply by ground or air
Whitefringed Beetle (adult)		equipment using sufficient
Aphid spp. ^{1, 2}		water to obtain full coverage
Armyworm, Beet 1, 2		of foliage (minimum of 10
Armyworm, Yellowstriped		gallons by ground and 2
Cabbage Maggot	3.2 to 4.0	gallons by air).
Colorado Potato Beetle ²	fl oz/A	
Grasshopper spp.	(0.02 to 0.025 lbs ai/A)	Do not make applications less
Imported Cabbageworm		than 4 days apart.
Potato Leafhopper		
Tarnished Plant Bug		

- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Leaves of Root and Tuber Vegetables cannot be used for food or feed.
- Do not apply within 1 day of harvest.
- ¹ Aids in control.

² See resistance statement under "Directions For Use" section.

Safflower

Insects	Rate of	Method of
Controlled	Application	Application
Cutworms Lygus spp.	4.0 fl oz/A (0.025 lbs ai/A)	Apply as needed based on pest thresholds determined by scouting practices. Refer to Extension Scouting guidelines for scouting techniques, pest thresholds and treatment timing and treatment intervals. Determine the need for repeat applications, at a minimum of 14 day intervals, by scouting. Do not exceed maximum allowable rate. Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage. Apply in water using a minimum of 5 gallons of finished spray per acre.

- A maximum of 12 fluid ounces of product (0.075 pounds active ingredient) per acre per season may be applied.
- Do not apply within 14 days of harvest.

Sod Farms including: bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagrass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysia grass. Also included are sudangrass and sorghum forages and their hybrids.

Insects	Rate of	Method of
Controlled	Application	Application
Alfalfa caterpillar Alfalfa looper Alfalfa weevil Ant spp. Blue alfalfa aphid² Cutworm spp. Egyptian alfalfa weevil Flea beetle spp. Green cloverworm Green peach aphid² Hornworm spp. Meadow spittlebug Pea aphid² Potato leafhopper Spotted alfalfa aphid¹ Threecornered alfalfa hopper Velvetbean caterpillar Webworm spp	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher listed dosage for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of

Armyworm, southern Armyworm, true Armyworm, yellowstriped Cereal leaf beetle Chinch bug Grass mealybug Grasshopper spp. Plant bug spp. Stinkbug spp.	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high.
Armyworm, fall	3.2 – 4.0 fl oz/A	
	(0.02 to 0.025 lbs ai/A)	

- A maximum of 4 fluid ounces of product (0.025 pounds of active ingredient) per acre may be applied per application.
- A maximum of 20 fluid ounces of product (0.125 pounds active ingredient) per acre per season may be applied.

Sorghum (Grain) and Millet:

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp.	1.28 to 4.0	Apply as required by
Sorghum Midge	fl oz/A	scouting. Timing and
	(0.008 to 0.025 lbs ai/A)	frequency of applications
Armyworm, Fall		should be based upon insect
Armyworm, Southern		populations reaching locally
Armyworm, True		determined economic
Armyworm, Yellow-Striped		thresholds. Do not exceed
Corn Borer, European ¹	1.76 to 4.0	maximum allowable rate.
Corn Borer, Southwestern ¹	fl oz/A	
Corn Earworm	(0.011 to 0.025 lbs ai/A)	Apply by ground or air
Flea Beetle spp.	·	equipment using sufficient
Hornworms		water to obtain full coverage
Stink Bug spp.		of foliage (minimum of 10
Webworm spp.		gallons by ground and 2

Applications may be made up to harvest.
 Aphid control may be variable depending on species present and host-plant relationships.

Aphid spp. ^{2,3} Armyworm, Beet ³ Chinch Bug False Chinch Bug Grasshopper spp. Lesser Cornstalk Borer ¹ Thrips spp. ^{3,4} Whitefly spp. ^{3,4}	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	gallons by air). The addition of one to two quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control. For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 10-day intervals if needed. For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of plants with sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths.
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- Do not make applications less than 10 days apart.
- Do not apply more than 20 fluid ounces of product (0.125 pounds of active ingredient) per acre per season.
- Do not apply within 14 days of harvest for grain and stover; within 45 days of harvest for forage.
- ¹ For control before the larva bores into the plant stalk.
- ² Aphid control may be variable depending on species present and host-plant relationships. ³ See resistance statement under "Directions For Use" section
- ⁴ Aids in control

Soybeans:

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp.		Apply as required by
Painted Lady (Thistle)	1.28 to 4.0	scouting. Timing and
Caterpillar	fl oz/A	frequency of applications
Saltmarsh Caterpillar	(0.008 to 0.025 lbs ai/A)	should be based upon insect
Silverspotted Skipper		populations reaching locally

Alfalfa Caterpillar Armyworm, Southern Armyworm, True Armyworm, Yellowstriped Bean Leaf Beetle¹ Blister Beetle spp. Colorado Potato Beetle Corn Borer, European Corn Earworm Corn Rootworm Beetle (adult) Cowpea Curculio Cucumber Beetle European Corn Borer Flea Beetle Green Cloverworm Hornworms Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafminers (adults) Mexican Bean Beetle Pea Leaf Weevil Plant Bug spp. Potato Leafhopper Seedcorn Maggot (adult) Soybean Aphid Spittlebug Three-Cornered Alfalfa Hopper Tobacco Budworm ² Velvetbean Caterpillar Webworm spp. Woollybear Caterpillar	2.8 to 4.0 fl oz/A (0.0175 to 0.025 lbs ai/A)	determined economic thresholds. Do not exceed maximum allowable rate. Apply with either aerial or ground equipment using sufficient spray volume to obtain full coverage of the plant and foliage. Use a minimum of 2 gallons of finished spray per acre by air or 10 gallons of finished spray per acre by ground. The addition of one to two quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control.
Armyworm, Beet Armyworm, Fall Grasshopper spp. Lesser Cornstalk Borer ³ Looper spp. ² Stink Bug spp. Thrips spp. ^{2,3} Whitefly spp. ^{2,3} Kudzu Bug (aka bean	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	
Plataspid)	(0.025 lbs ai/A)	

- Do not make applications less than 7 days apart.
- Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
- Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.
- Do not apply within 21 days of harvest.

¹ Use higher listed dosage for increased pest pressure, increased residual pest control, or later-season applications. Do not exceed maximum allowable rate.

² See resistance statement under "Directions For Use" section

³ Aids in control

Stone Fruit Group including: Apricot; Cherry (Sweet and Tart); Nectarine; Peach; Plum (including Chickasaw Plum, Damson Plum, and Japanese Plum); Plumcot; and Prune (fresh).

Insects	Rate of	Method of
Controlled	Application	Application
American Plum Borer Black Cherry Aphid Cherry Fruit Fly Green Fruitworm Leafrollers Leafhoppers Lesser Peach Tree Borer Peach Tree Borer Peach Twig Borer Plum Curculio Oriental Fruit Moth Rose Chafer Stink Bugs Tarnished Plant Bug Tufted Apple Budmoth Western Cherry Fruit Fly	1.28-4.0 fl oz/A (0.008-0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (for ground application use a minimum of 20 gallons for concentrate spray or a minimum of 100 gallons for dilute spray; for air application use a minimum of 10 gallons). Do not make applications less than 7 days apart.
Vinegar Flies (Adult)	4.0 fl oz/A	
Spotted Wing Drosophila	(0.025 lbs ai/A)	

[•] Do not apply more than 24 fluid ounces of product (0.15 pounds of active ingredient) per acre per season.

[•] Do not apply as a ULV spray.

[•] Do not feed or allow livestock to graze on cover crops from treated orchards.

[•] Do not apply within 14 days of harvest.

Sugar Beet

Insects Controlled	Rate of Application	Method of Application
Foliar Application: Armyworms Blister Beetles Click Beetles Cutworms Flea Beetles Grasshoppers Heliothis spp. Leafhoppers Leafminer (adults) Loopers Lygus Bugs Sugar Beet Root Maggot (adult) Sugar Beet Crown Borer Thistle Caterpillar Webworms Zebra Caterpillar Aphids¹	2.24 to 4.0 fl oz/A (0.014 to 0.025 lbs ai/A)	Make applications when insect populations reach economic threshold levels. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results. Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground).
At Plant Application: Sugar Beet Root Maggot (larvae)² White Grub Wireworm	4.0 fl oz/A (0.025 lbs ai/A)	For light to moderate infestations only. Make a 3-4 inch T-Band (band over the open furrow) at planting in a minimum of 3-5 gallons per acre. Apply in-furrow or in a 3 - 4 inch T-Band (band over the open furrow) at planting in a minimum of 3-5 gallons per
Cutworm species		acre. Apply at planting on the soil surface in a 5-7inch band or broadcast in a minimum of 3-5 gallons per acre.

[•] Do not apply more than 12 fluid ounces of product (0.075 pounds of active ingredient) per acre per season including at plant plus foliar applications of F9114 EC.

Do not apply within 50 days of harvest for tops or roots.
 Aphid control may be variable depending on species present and host-plant relationships.

² Suppression only

Sugarcane

Insects	Rate of	Method of
Controlled	Application	Application
Sugarcane Borer Mexican Rice Borer	3.0 to 4.0 fl oz/A (0.01875 to 0.025 lbs ai/A)	Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results. Do not exceed maximum allowable rate. Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by ground).

- Do not make applications less than 21 days apart.
- Do not apply more than 16 fluid ounces of product (0.10 pounds of active ingredient) per acre per season.
- Do not apply within 21 days of harvest.

Sunflower, Castor Oil Plant, Chinese Tallowtree, Euphorbia, Evening Primrose, Jojoba, Niger Seed, Rose Hip, Stokes Aster, Tallowwood, Tea Oil Plant, and Vernonia

At-plant Application

Insects	Rate of	Method of
Controlled	Application	Application
Cutworm spp. White Grub Wireworm	4.0 fl oz/A (0.025 lbs ai/A)	For White grubs and Wireworms: Apply in-furrow or in a 3 – 4 inch T-Band (band over the open furrow) at planting in a minimum of 3 – 5 gallons per acre. For Cutworm spp: Apply at planting on the soil surface in a 5 – 7 inch band or broadcast in a minimum of 3 – 5 gallons per acre.

- Maximum Amount per Application: Do not apply more than 4.0 fluid ounces of product (0.025 pound active ingredient) per acre per application.
- Maximum Amount per Season: Do not apply more than 20 fluid ounces of product (0.125 pound active ingredient) per acre per season including at-plant plus foliar applications.
- Do not make more than 5 applications at the maximum rate per season.
- Grazing: Do not graze livestock in treated areas or cut treated crops for feed.
- Do not apply within 30 days of harvest.

Sunflower, Castor Oil Plant, Chinese Tallowtree, Euphorbia, Evening Primrose, Jojoba, Niger Seed, Rose Hip, Stokes Aster, Tallowwood, Tea Oil Plant, and Vernonia

Foliar Use		
Insects Controlled	Rate of Application	Method of Application
Thistle Caterpillar (Painted Lady) Cutworm species	Дрисацоп	Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage.
	1.28 to 4.0 fl oz/A (0.008 to 0.025 lbs ai/A)	Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. Begin applications when pest appears and repeat as necessary to maintain control.
		Do not make applications less than 7 days apart.
		Use higher listed dosage for increased residual pest control.
		Do not exceed maximum allowable rate.
Sunflower Beetle Sunflower Moth Sunflower Maggot Stem Weevil (adult) Grasshopper species Leafhopper species Head-Clipper Weevil (adult) Red Sunflower Seed Weevil (adult) Grey Sunflower Seed Weevil (adult) Saltmarsh Caterpillar Banded Sunflower Moth Armyworm Sunflower Butterfly Wooly Bear Caterpillar Japanese Beetle Webworm species	2.6 to 4.0 fl oz/A (0.016 to 0.025 lbs ai/A)	
Long-Horned Beetle (Dectes Stem Borer adult) Beet Armyworm Fall Armyworm Stink Bug Species Pale striped Flea Beetle	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	

- Maximum Amount per Season: Do not apply more than 20 fluid ounces of product (0.125 pound active ingredient) per acre per season including at-plant plus foliar applications.
- Do not make more than five applications at the maximum application rate per season.
- Grazing: Do not graze livestock in treated areas or cut treated crops for feed
- Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.
- Do not apply within 30 days of harvest.

Tree Nuts Group including: almond; beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut; pecan; pistachio; and walnut (black and English).

Insects	Rate of	Method of
Controlled	Application	Application
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique-banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Pecan Weevil Plant Bugs Stink Bugs Walnut Aphid Walnut Husk Fly Yellow Pecan Aphid	3.2 to 4.0 fl oz/A (0.02 to 0.025 lbs ai/A)	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Do not exceed maximum allowable rate. Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).

- Do not apply more than 20 fluid ounces of product (0.125 pounds of active ingredient) per acre per season.
- Do not make applications less than seven days apart.
- Do not apply within 7 days of harvest.

Wheat and Triticale

Rate of	Method of
Application	Application
1.28 to 4.0	Apply as required by
fl oz/A	scouting. Timing and
(0.008 to 0.025 lbs ai/A)	frequency of applications
	should be based upon insect
1.76 to 4.0	populations reaching locally
fl oz/A	determined economic
(0.011 to 0.025 lbs ai/A)	thresholds. Do not exceed
	maximum allowable rate.
	Apply by ground or air
	equipment using sufficient
	water to obtain full coverage
	of foliage (minimum of 10
3.2 to 4.0	gallons by ground and 2
fl oz/A	gallons by air).
(0.02 to 0.025 lbs ai/A)	
	For chinch bug control, begin
	applications when bugs
	migrate from small grains or
	grass weeds. Apply sufficient
	spray volume to penetrate the
	soil/stem interface, leaf
	collars, and sheaths.
	Application 1.28 to 4.0 fl oz/A (0.008 to 0.025 lbs ai/A) 1.76 to 4.0 fl oz/A (0.011 to 0.025 lbs ai/A) 3.2 to 4.0 fl oz/A

- Do not make applications less than 14 days apart.
- Do not apply more than 20 fluid ounces of product (0.125 pounds active ingredient) per acre per season.
- Do not apply within 14 days of harvest for grain, forage, and hay.
 Aphid control may be variable depending on species present and host-plant relationships.
 See resistance statement under "Directions For Use" section

³ Aids in Control

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